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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,161	11/04/2003	Stephen Michael Campbell	KC-20,043	5526
Pauley Peterse	7590 01/16/200 n & Erickson	7	ЕХАМ	INER
Suite 365			VO, HAI	
2800 W. Higgins Road Hoffman Estates, IL 60195			ART UNIT	PAPER NUMBER
	,		1771	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
Office Action Comme	10/701,161	CAMPBELL ET AL.	
Office Action Summary	Examiner	Art Unit	
	Hai Vo	1771	
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MC e. cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. & 133)	
Status			
1) Responsive to communication(s) filed on 16 C	October 2006		
_	s action is non-final.		
3) Since this application is in condition for allowa		tters, prosecution as to the merits is	
closed in accordance with the practice under			
Disposition of Claims	,	,	
4)⊠ Claim(s) <u>1,4-25 and 32-40</u> is/are pending in th	ne application		
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1, 4-25, and 32-40</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement		
Application Papers	or election requirements.		
· _			
9) The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) acc			
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct).
11) The oath or declaration is objected to by the Ex	xaminer. Note the attache	ed Office Action or form P1O-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	-	§ 119(a)-(d) or (f).	
1. Certified copies of the priority document			
2. Certified copies of the priority document			
3. Copies of the certified copies of the prio		n received in this National Stage	
application from the International Burea * See the attached detailed Office action for a list	, ,,,	traccived	
dee the attached detailed Office action for a list	or the certified copies no	rreceived.	
Attachment(s)	_		
) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413)	
i) Π Notice of Draπsperson's Patent Drawing Review (P10-948) i) Π Information Disclosure Statement(s) (PTO/SB/08)		(s)/Mail Date Informal Patent Application	
Paper No(s)/Mail Date	6)		

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1. All of the art rejections are maintained.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 4-25, and 32-37 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Suzuki et al (US 5,763,333). Suzuki discloses a laminate comprising a nonwoven layer, a moisture permeable sheet formed from a polyolefin mixed with a particulate filler, and an adhesive bonding the nonwoven layer and the film layer together at an add-on level between 0.5 to 7 gsm (abstract). Suzuki discloses the spunbonded nonwoven web made from a thermoplastic material, an elastomeric material (column 6, lines 65-67). Suzuki discloses the moisture permeable layer having a thickness from 15 to 40 microns (column 3, lines 45-47). Suzuki discloses an amorphorus alphaolefin copolymer based adhesive containing 30 to 70% C5

hydrocarbon tackifier and an antioxidant (column 7, lines 50-65). Therefore, it is not seen that the molecular weight of about 200 Daltons or less could not have been inherently present as the same material is used for the tackifier. Suzuki teaches the APAO based adhesive comprising propylene copolymerized with 1butene (column 7, lines 40-45). The adhesive composition has a Brookfield viscosity from 500 to 10000 cps (abstract). Suzuki discloses that the adhesive strength is about 100 g/25 mm or higher and there is no particular upper limit of the adhesive strength (column 9, lines 25-27). Likewise, the range disclosed by Suzuki encompassed the claimed range. Suzuki does not specifically disclose no burn-through visual defects. However, it appears that the bonded structure of Suzuki meets all the structural limitations as set forth in the claims, a thermoplastic film, a spunbonded web and an adhesive with a composition similar to the composition of the adhesive of the present invention, it is the examiner's position that no burn-through visual defects would be inherently present. Like material has like property. This is in line with In re Spada, 15 USPQ 2d 1655 (1990). Accordingly, Suzuki anticipates or strongly suggests the claimed subject matter.

5. Claims 1, 4-6, 9-25, and 32-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCormack (US 5,843,057) in view of Karandonos (US 6,627,723). McCormack teaches a laminate comprising a nonwoven layer, a stretch-thinned film formed from a polyolefin mixed with a particulate filler, and an adhesive bonding the nonwoven layer and the film layer together at an add-on

level between 0.1 to 20 gsm. McCormack discloses the spunbonded nonwoven web made from a thermoplastic material, an elastomeric material (column 4, lines 15-35). McCormack discloses the single film layer which is liquid impermeable and water vapor transmissible (column 8, lines 45-60). McCormack '057 discloses the film layer having a thickness from 0.2 to 0.6 mils (column 9, lines 10-15). McCormack discloses the amorphorus polyalphaolefin (APAO) based adhesive containing a tackifier and an antioxidant (column 9, lines 62-63). McCormack discloses the adhesive having a peel strength of 1328 grams, which is within the claimed range (table II). McCormack '057 does not specifically disclose the amount of tackifier in the APAO based adhesive. Karandonos teaches an APAO based adhesive for use in diapers comprising 1 to 25% by weight of a tackifier and a small amount of an anti-oxidant stabilizer (column 4, lines 20-21, and column 6, lines 23-25). Karandonos teaches the APAO based adhesive comprising propylene copolymerized with 1-butene (example 10). Since the adhesive composition of Karandonos is very much similar to the adhesive composition of the present invention, the Brookfield viscosity would be inherently present because like material has like property. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use an adhesive composition as described by Karandinos for bonding the film and the nonwoven web of McCormack motivated by the desire to achieve an adhesive bond of sufficient strength between the film and nonwoven web (see Karandino, column 5, lines 55-57). McCormack as modified

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by Karandinos does not specifically disclose no burn-through visual defects. However, it appears that the bonded structure of McCormack as modified by Karandinos meets all the structural limitations as set forth in the claims, a water-impermeable thermoplastic film, a spunbonded web and an adhesive with a composition similar to the composition of the adhesive of the present invention, it is the examiner's position that the peel strength and no burn-through visual defects would be inherently present. Like material has like property. This is also in line with *In re Spada*, 15 USPQ 2d 1655 (1990).

- 6. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCormack (US 5,843,057) in view of Karandonos (US 6,627,723) as applied to claim 1 above, further in view of Suzuki et al (US 5,763,333). Neither McCormack nor Karandonos teaches or suggests the use of C5 hydrocarbon tackifier. Suzuki, however, teaches an APAO based adhesive for use in bonding a film and a nonwoven web of the diaper comprising 30 to 70% by weight of C5 hydrocarbon tackifier based on the total weight of the adhesive composition. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use an adhesive composition as described by Karandinos for bonding the film and the nonwoven web of McCormack because this tackifier is solid at room temperature and preferred for use with the APAO based adhesive.
- 7. Claims 1, 4-6, 9-25, and 32-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morman et al (US 6,632,212) in view of Karandonos (US

6,627,723). Morman teaches a laminate comprising a nonwoven layer, a stretchthinned film formed from a polyolefin mixed with a particulate filler, and an adhesive material bonding the nonwoven layer and the film layer together at an add-on level between 3 gsm (examples). Morman discloses the spunbonded nonwoven web made from a thermoplastic material, an elastomeric material, extendible and non-extendible (column 7, lines 45-65). Morman discloses that the film layer and nonwoven web are each part of a single substrate (examples). Morman discloses the microporous film being liquid impermeable and water vapor transmissible (column 2, lines 30-32). Morman discloses the film layer having a thickness of less than 20 microns (column 10, lines 55-60). Morman does not specifically disclose the adhesive being an APAO based adhesive containing a tackifier and an antioxidant. Karandonos, however, teaches an APAO based adhesive for use in diapers comprising 1 to 25% by weight of tackifier and a small amount of an anti-oxidant stabilizer (column 4, lines 20-21, and column 6, lines 23-25). Karandonos teaches the APAO based adhesive comprising propylene copolymerized with 1-butene (example 10). Since the adhesive composition of Karandonos is similar to the adhesive composition of the present invention, the Brookfield viscosity would be inherently present because like material has like property. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use an adhesive composition as described by Karandinos for bonding the film and the nonwoven web of Morman motivated by the desire to achieve an adhesive bond

of sufficient strength between the film and nonwoven web (see Karandino, column 5, lines 55-57). Morman as modified by Karandinos does not specifically disclose a peel strength and no burn-through visual defects. However, it appears that the bonded structure of Morman as modified by Karandinos meets all the structural limitations as set forth in the claims, a water-impermeable thermoplastic film, a spunbonded web and an adhesive with a composition similar to the composition of the adhesive of the present invention, it is the examiner's position that the peel strength and no burn-through visual defects would be inherently present. Like material has like property. This is also in line with *In re Spada*, 15 USPQ 2d 1655 (1990).

8. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morman et al (US 6,632,212) in view of Karandonos (US 6,627,723) as applied to claim 1 above, further in view of Suzuki et al (US 5,763,333). Neither Morman nor Karandonos teaches or suggests the use of C5 hydrocarbon tackifier. Suzuki, however, teaches an APAO based adhesive for use in bonding a film and a nonwoven web of the diaper comprising 30 to 70% by weight of C5 hydrocarbon tackifier based on the total weight of the adhesive composition. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use an adhesive composition as described by Karandinos for bonding the film and the nonwoven web of Morman because the tackifier is solid at room temperature and preferred for use with the APAO based adhesive.

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Response to Arguments

- 9. The art rejections based on Suzuki have been maintained for the following reasons. Applicants argue that Suzuki does not disclose a laminate having a dynamic peel strength greater than 215 grams per 25 mm. The examiner respectfully disagrees. Suzuki discloses that the adhesive strength is about 100 g/25 mm or higher and there is no particular upper limit of the adhesive strength (column 9, lines 25-27). Likewise, the range disclosed by Suzuki encompasses the claimed range. It appears that the bonded structure of Suzuki meets all the structural limitations as set forth in the claims, a thermoplastic film, a spunbonded web and an adhesive with a composition similar to the composition of the adhesive of the present invention, it is the examiner's position that no burnthrough visual defects would be inherently present. Like material has like property. Additionally, Applicants argue that heat embossing may increase the amount of burn-through due to the pressure and temperature associated with this step. The arguments are not found persuasive because they are simply based on Applicants' opinions. As no experimental data have been provided in support of Applicants' assertion, the art rejections are sustained.
- 10. The art rejections over McCormack in view of Karandinos have been maintained for the following reasons. Applicants argues McCormack heating the adhesive to about 177 °C and then applying it to a film at an air temperature of about 193°C to 221 °C before bonding the film to the non-woven layer. McCormack uses a process which is different from the process disclosed in the present invention.

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Therefore, Applicants conclude that McCormack's dynamic peel strength would be expectedly different. The examiner respectfully disagrees. Applicants' attention is directed to table II of McCormack. The peel strength is within the claimed range as shown in samples 1, 2 and 5. Accordingly, the art rejections are sustained.

 The art rejections over Morman in view of Karandinos have been maintained for the following reasons. Applicants argue that the combination of the references does not achieve the claimed dynamic peel strength because Karandinos does not disclose process conditions for applying the adhesive to a substrate. The examiner respectfully disagrees. There is no need for Karandinos to address the process conditions as set forth in the present invention to meet the claimed dynamic peel strength since Morman discloses the adhesive being applied at the temperature of about 200°F, which is less than 170 °C (examples). This is the same range temperature at which the adhesive was applied as set froth in the present invention. Applicants fail to make any arguments against the obviousness based on the combination of Morman and Karandinos, it is the examiner's position that the dynamic peel strength would be inherently present based on the same structural limitations and the same composition of the adhesive material as previously discussed. Accordingly, the art rejections are sustained.

Conclusion

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12. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-1485. The examiner can normally be reached on Monday through Thursday, from 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hai Vo

HV

HAI VÕ PRIMARY EXAMINER